OIPE IAP12
JUL 24 2006
PATENT & TRADEMARK OFFICE

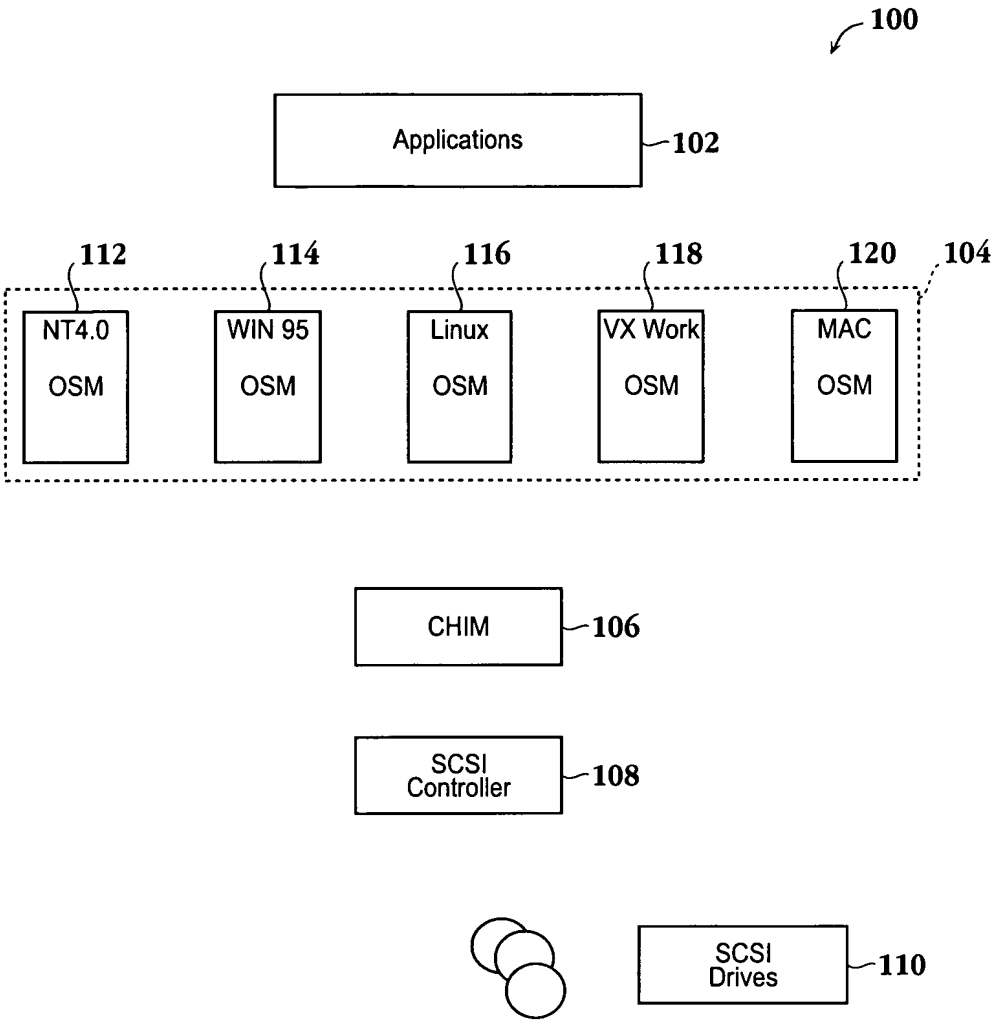

Fig. 1 ***(prior art)***

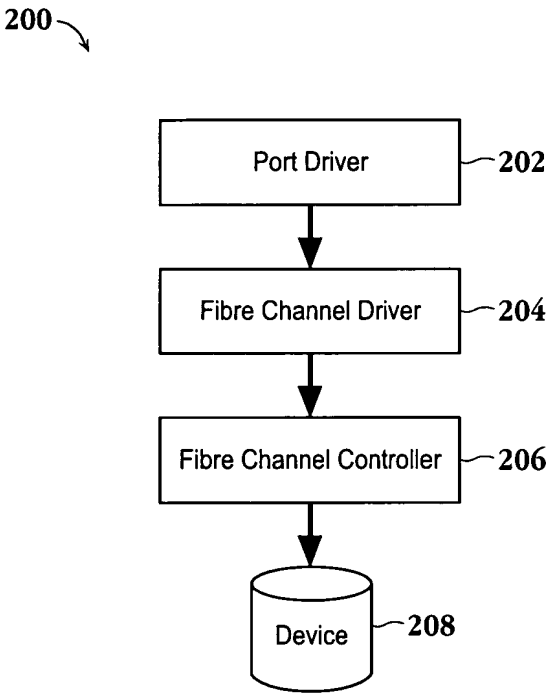

Fig. 2 *(prior art)*

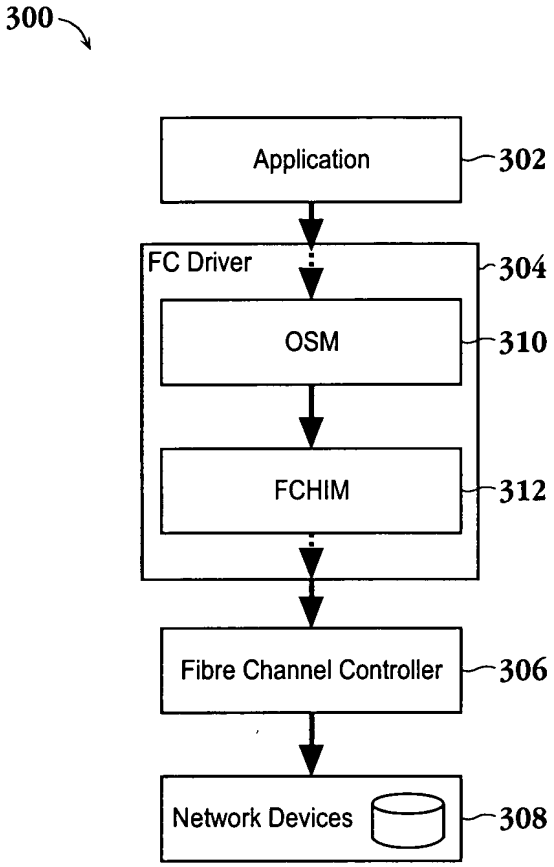
300
Application
302
FC Driver
304
OSM
310
FCHIM
312
Fibre Channel Controller
306
Network Devices
308

Fig. 3A

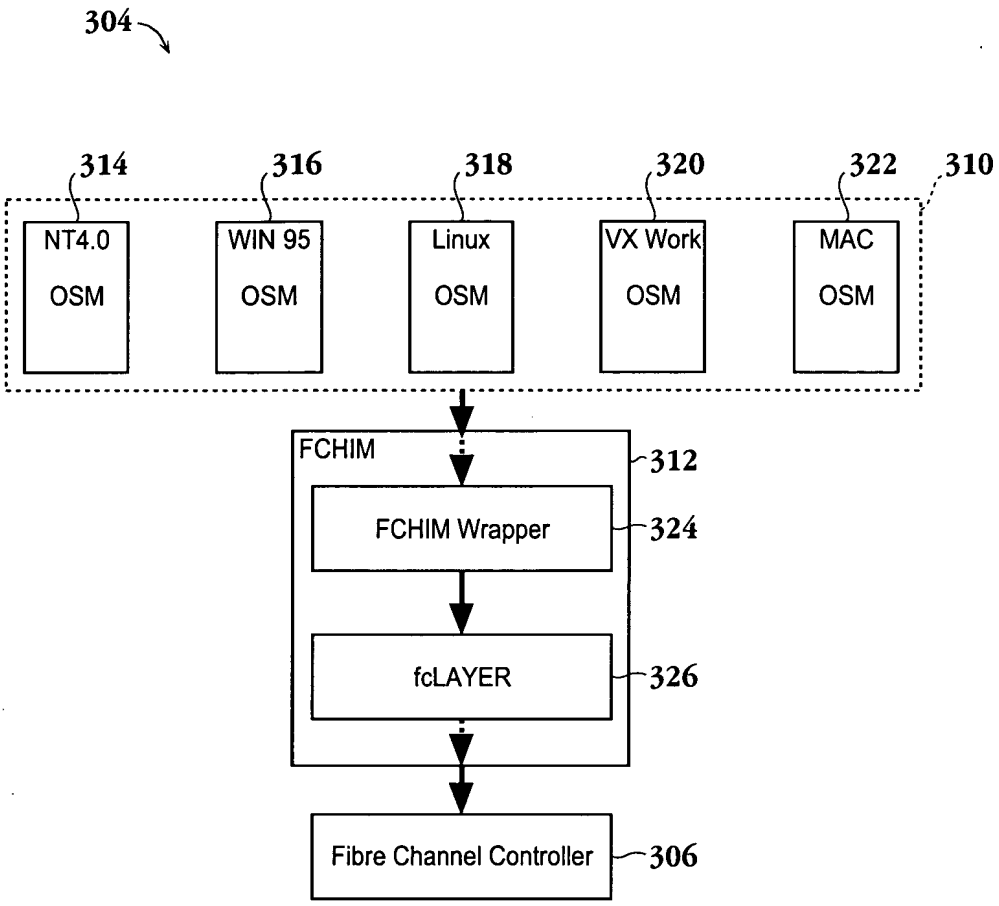
304
314
316
318
320
322
310
NT4.0
OSM
WIN 95
OSM
Linux
OSM
VX Work
OSM
MAC
OSM
FCHIM
312
FCHIM Wrapper
324
fcLAYER
326
Fibre Channel Controller
306

Fig. 3B

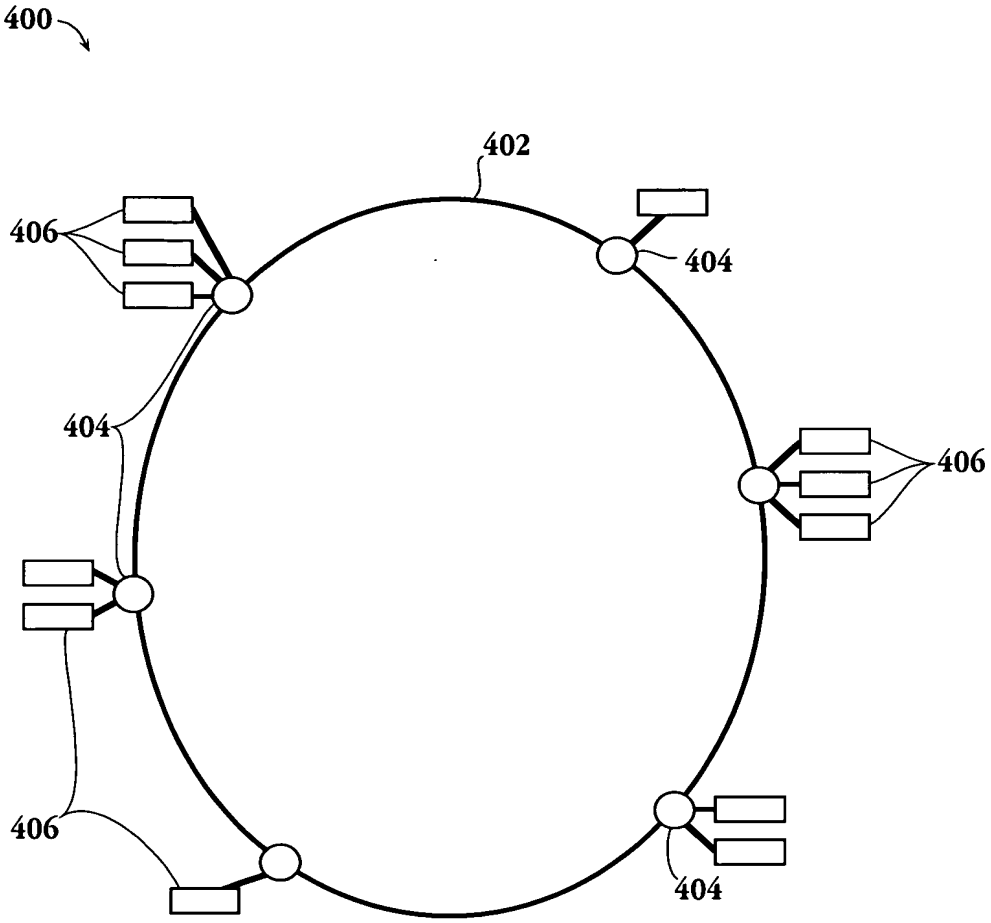

Fig. 4

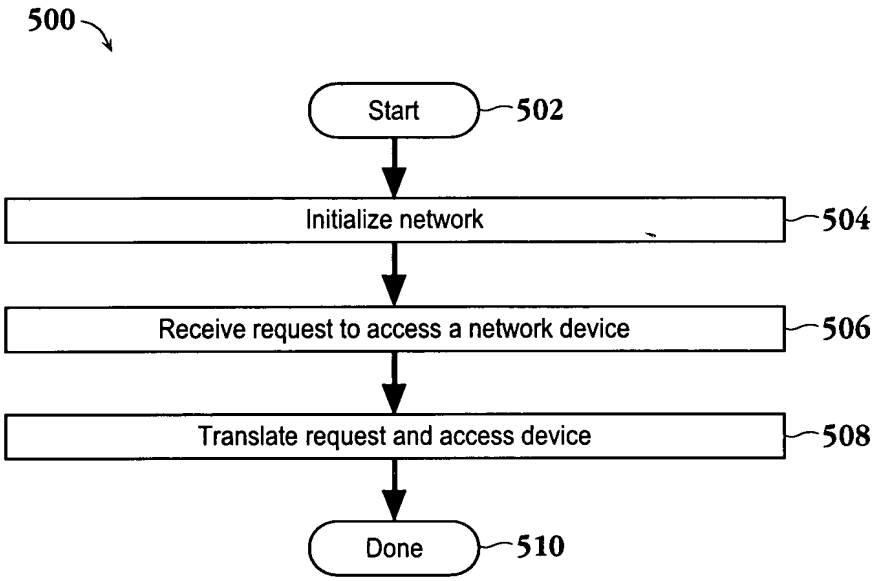
500
Start
502
Initialize network
504
Receive request to access a network device
506
Translate request and access device
508
Done
510

Fig. 5

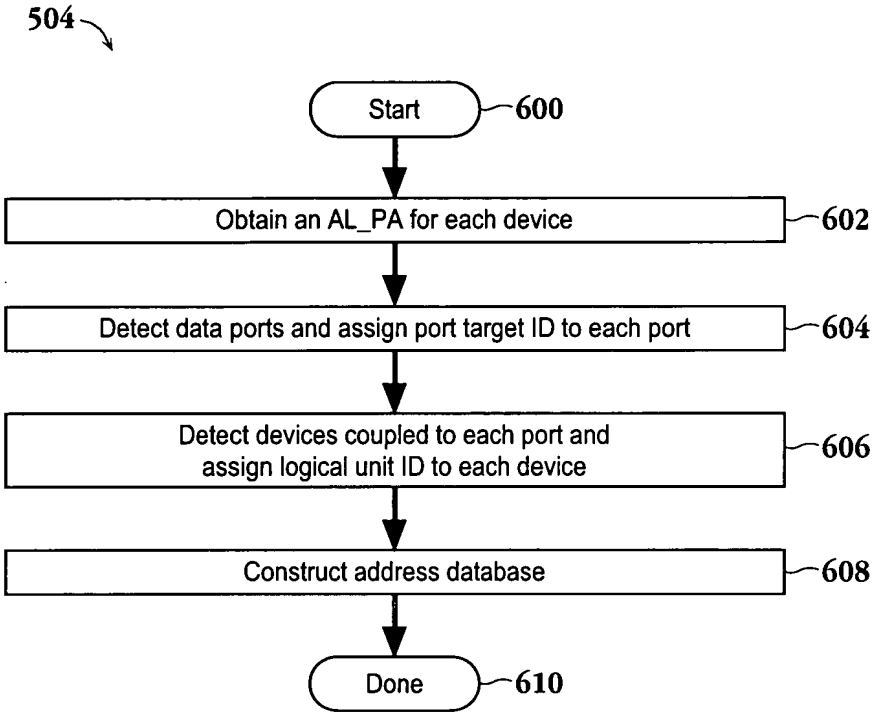
504
Start
600
Obtain an AL_PA for each device
602
Detect data ports and assign port target ID to each port
604
Detect devices coupled to each port and assign logical unit ID to each device
606
Construct address database
608
Done
610

Fig. 6

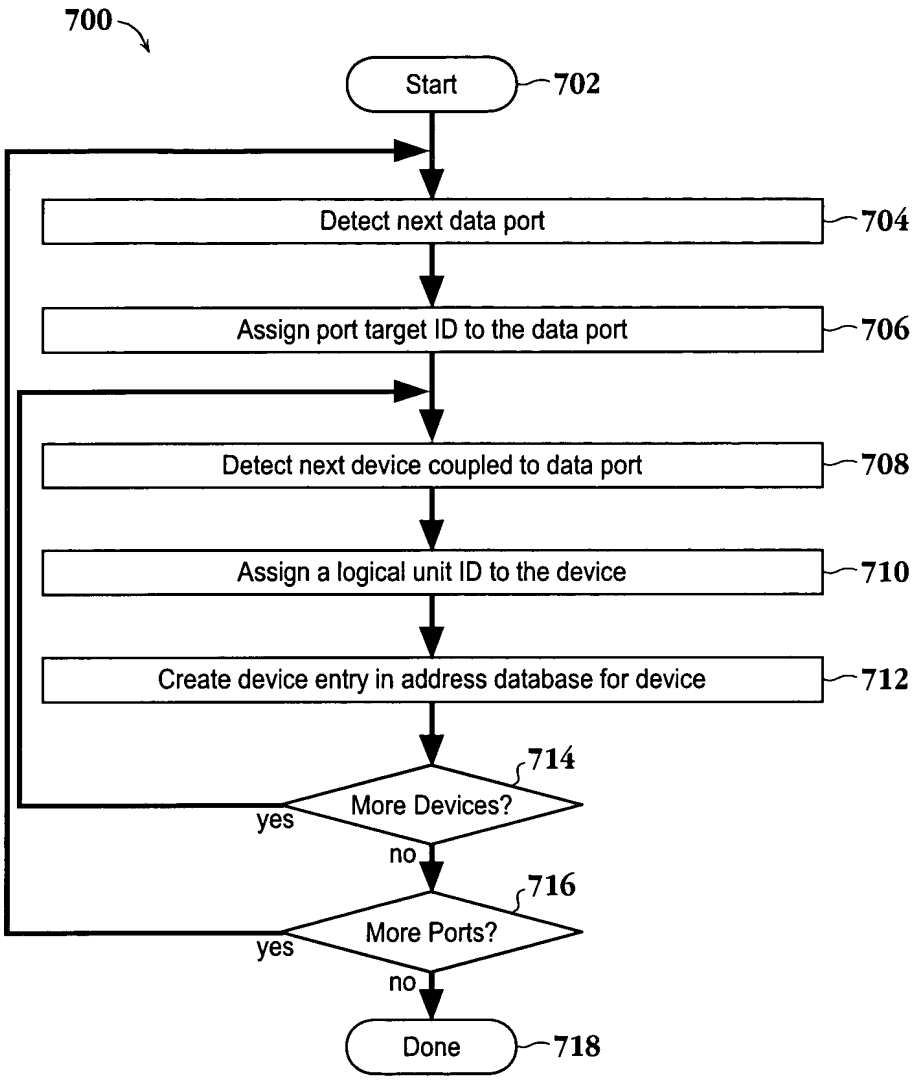
700
Start
702
Detect next data port
704
Assign port target ID to the data port
706
Detect next device coupled to data port
708
Assign a logical unit ID to the device
710
Create device entry in address database for device
712
714
More Devices?
yes
no
716
More Ports?
yes
no
Done
718

Fig. 7

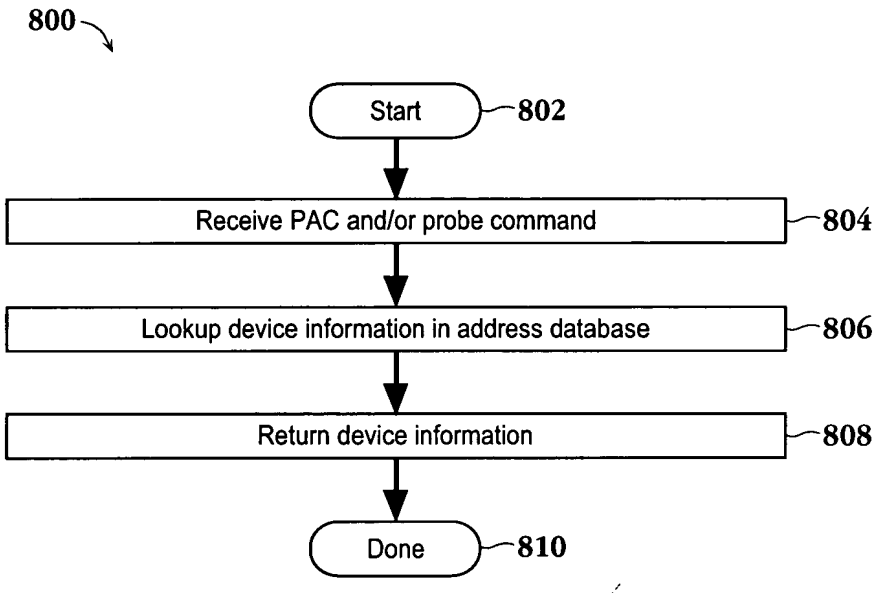
800
Start
802
Receive PAC and/or probe command
804
Lookup device information in address database
806
Return device information
808
Done
810

Fig. 8

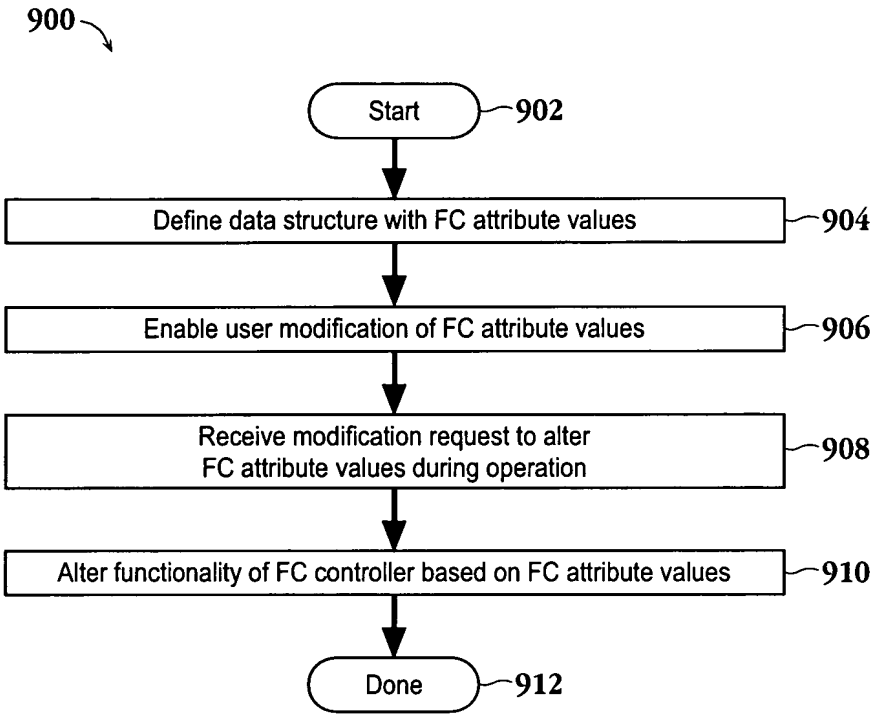
900
Start
902
Define data structure with FC attribute values
904
Enable user modification of FC attribute values
906
Receive modification request to alter FC attribute values during operation
908
Alter functionality of FC controller based on FC attribute values
910
Done
912

Fig. 9

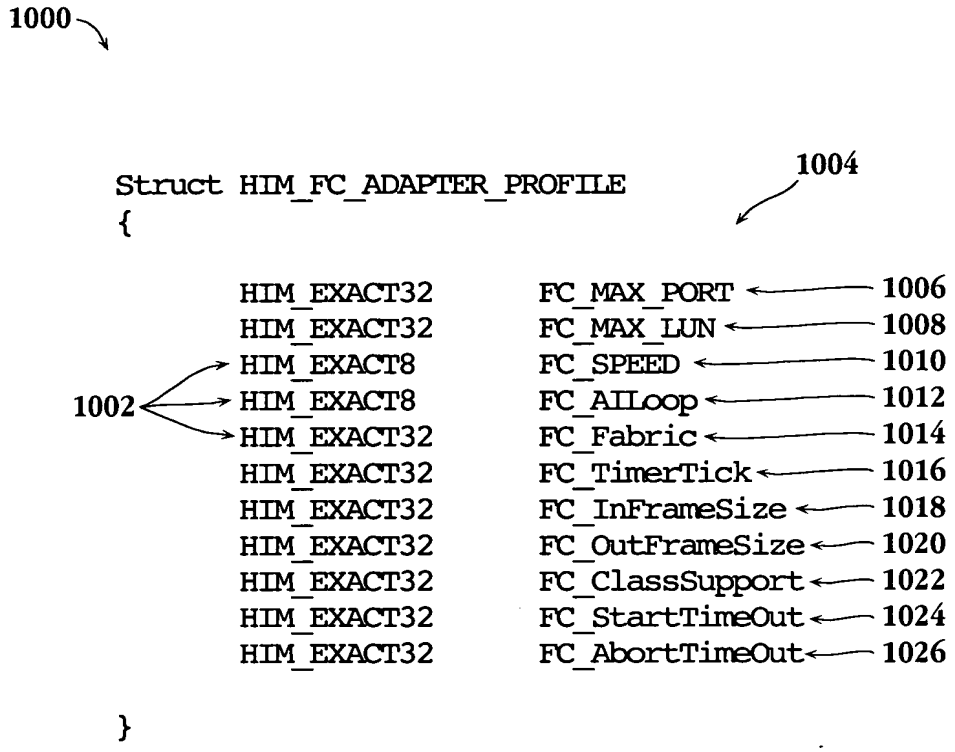
1000
Struct HIM_FC_ADAPTER_PROFILE
1004
{
HIM_EXACT32 FC_MAX_PORT 1006
HIM_EXACT32 FC_MAX_LUN 1008
HIM_EXACT8 FC_SPEED 1010
1002
HIM_EXACT8 FC_AILoop 1012
HIM_EXACT32 FC_Fabric 1014
HIM_EXACT32 FC_TimerTick 1016
HIM_EXACT32 FC_InFrameSize 1018
HIM_EXACT32 FC_OutFrameSize 1020
HIM_EXACT32 FC_ClassSupport 1022
HIM_EXACT32 FC_StartTimeOut 1024
HIM_EXACT32 FC_AbortTimeOut 1026
}

Fig. 10

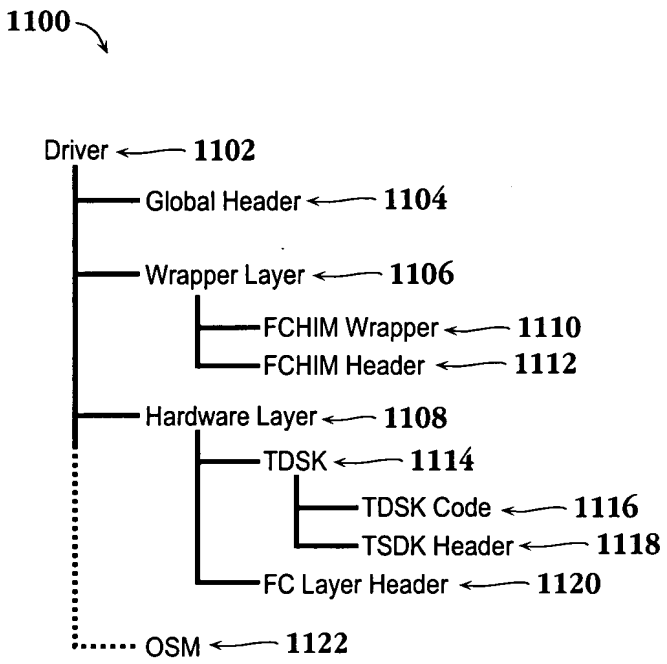
1100
Driver 1102
Global Header 1104
Wrapper Layer 1106
FCHIM Wrapper 1110
FCHIM Header 1112
Hardware Layer 1108
TDSK 1114
TDSK Code 1116
TSDK Header 1118
FC Layer Header 1120
OSM 1122

Fig. 11